# C-45
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## VENTRICULAR DYSRHYTHMIAS: VENTRICULAR FIBRILLATION/ VENTRICULAR TACHYCARDIA WITHOUT A PULSE

Precordial thump in witnessed arrest.

• ABCs/monitor cardiac rhythm/CPR.

> If arrest not witnessed by EMS responders, perform 2 minutes of CPR prior to defibrillation.

Defibrillate x 3 Monophasic: 200J, 200J–300J, 360J Biphasic\*: 120J–150J–200J

Intubate.

• IV access, rate titrated to perfusion.

Defibrillate after each medication.

• Epinephrine: 1 mg 1:10,000 IVP every 3-5 minutes.

ET: Epinephrine 1:1000 10 mg once.

• Lidocaine: Initial dose:

• 1-1.5 mg/kg IVP

Subsequent doses (given at 3 to 5 minute intervals):

• 0.5-0.75 mg/kg IVP (half of the initial dose)

Limit of 150 mg / IVP dose. Maximum total dose: 3 mg/kg

ET: 3 mg/kg once, maximum 10 cc (200 mg).

## Pediatric:

Defibrillate x 3
 Monophasic: (2 J/Kg-4 J/Kg)
 Biphasic\*: 1J/Kg -2J/Kg -4J/Kg

• Epinephrine: 0.01 mg/kg 1:10,000 IVP every 3-5 minutes.

• Defibrillate 30-60 seconds after each medication, 4 J/kg.

Lidocaine: 1 mg/kg IVP.

## **NOTES**:

- Consider sodium bicarbonate only in prolonged arrest, known renal failure, or tricyclic overdose in adult and pediatric patients: 1 mEg/kg IVP then 0.5 mEg/kg every 10 minutes.
- If the patient refibrillates, utilize previous energy level that was successful.
- After ventricular tachycardia or ventricular fibrillation has been terminated, Lidocaine 1 mg/kg should be given.
- Initial shocks by first responders (e.g., EMT defibrillation/AED/public access defibrillation) shall be counted as defibrillations if the patient remains in ventricular fibrillation.
- \*Defibrillation energy levels vary according to the type of waveform (monophasic or biphasic). Follow
  manufacturer's recommendations. If none listed, utilize energy levels as noted above. Indicate if
  monophasic or biphasic energy was used and the amount of Joules administered.
- When defibrillating pediatric patients:
  - Patients younger than 1 year/10 Kg weight: use "infant" paddles( or pads) on patients.
  - > Patients > 1 year/10 Kg: use adult paddles (or pads) and the anterior/posterior placement if small chest size.

## Shaded text indicates BH order

Unshaded text indicates standing order

Approved:

Bully-10